PERSPECTIVES OF INTERNATIONAL PROJECTS AND PROGRAMMES DEVELOPMENT IN UKRAINE IN TRANSPORT

Prof. Grabarek Iwona, Ph.D, Vakulenko Kateryna, Ph.D, associate professor,
Prof. Davidich Yurii, Doctor of Technical Science
Warsaw University of Technology, O. M. Beketov National University of Urban Economy in Kharkiv, Kharkiv

To date, the development of urban passenger systems should be aimed at the implementation of new systems of urban passenger transport environmental and increasing mobility of people, including those with disabilities.

Presented objectives are achieved within the framework of the scientific program "Horizon 2020", and the projects "Eco-Mobility - Prometheus: automated intelligent vehicle - Human Interface - The system of roads 'and' Performance and testing innovative solutions for cleaner and better urban transport and mobility" Implementation of these projects coincide with the strategic direction of Kharkov region: urban transport systems, individual and collective mobility, transport infrastructure and transport services for people with disabilities. Big success in the development of this area has made Warsaw University of Transport [1, 2].

As part of the project's package, "Eco-Mobility - Prometheus" may be resolved following tasks: evaluation of psycho-functional state of the driver in a variety of situations; development of recommendations for the duration of driving, taking into account the functional state of the driver and his disability; study of the influence of the environment and the individual characteristics of the driver on his behavior on the road; modeling of the transport system and transport flows considering introduction of PRT (Personal rapid transport), eco-car, exoskeleton, wheelchairs and integration of these systems with other urban transport systems; definition of demand for PRT, eco-car, exoskeleton, wheelchairs and their evaluation; Development of proposals on introduction of innovations in Ukraine. Implementation of these projects will improve transport services for all people and will contribute to the improvement of Ecology.

References

1. Iwona Grabarek. Ergonomic diagnosis of the driver's workplace in an electric locomotive. international journal of occupational safety and ergonomics 2002, vol. 8, no. 2, 225–242. available at: http://archiwum.ciop.pl/2209

2. Iwona GRABAREK. Ergonomia w projektowaniu innowacyjnego transportu publicznego. Zeszyty naukowe politechniki poznańskiej. Nr 63 Organizacja i Zarządzanie 2014. Available at: http://www.zeszyty.fem.put.poznan.pl/numery/ ZN_OiZ_PP_63_05.pdf